

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/082,481		02/25/2002	Alfred Wade Muldoon		4398
	7590	01/03/2006		EXAMINER	
Alfred Wad		on	VU, BAO Q		
2603 Willa Dr. St. Joseph, MI 49085				ART UNIT	PAPER NUMBER
				2838	
				DATE MAILED: 01/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commence	10/082,481	MULDOON, ALFRED WADE					
Office Action Summary	Examiner	Art Unit					
	Bao Q. Vu	2838					
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet v	vith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions are period for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MO tute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>30</u>	September 2005						
,	his action is non-final.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>21-38</u> is/are pending in the applicat	tion						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>21-38</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	d/or election requirement.						
Application Papers	· .						
	inor						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
The ball of declaration is objected to by the	Examiner. Note the attach						
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life	ents have been received. ents have been received in a riority documents have bee eau (PCT Rule 17.2(a)).	Application No n received in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 					

Application/Control Number: 10/082,481 Page 2

Art Unit: 2838

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 2. Claims 21-38 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Bhatnagar (USP 6,739,145). Bhatnagar discloses the claimed invention a controller having transducers and sensors/ scan circuits. See abstract and figure 14. Also see column 1, line 50 column 2, line 7, below.
- (5) The various types of transducers/sensors have different interface requirements and produces output signals with different characteristics. The control system has to provide the necessary interface conditions required by each transducer and possess the ability to process the signals received from it. This makes it necessary for the control system to provide different interface signals for each type of transducer/sensor.
- (6) In like manner, the various output devices that are required to be actuated by the control system in order to bring about the correction of control of the sensed physical parameter, differ in their requirements for

Application/Control Number: 10/082,481

Art Unit: 2838

actuation DC motors and AC motors for example, have different drive requirements. In some applications using AC loads simple ON-OFF control of the load is required, while in other applications phase-angle control or integral half-cycle control may be necessary. Similarly, in controlling DC loads a simple ON-OFF control may be adequate while in other applications pulse-width-modulation output is necessary. Likewise, different types of power switching have differing requirements for operation. Triac-firing requirements are very different from the requirements for switching relays or contactors. For each case the electronic circuitry in the controller has to change in order to provide compatibility.

The circuit only senses the transducers that are present and operates the circuitry based on the transducers that are present. It's inherent that the control is limited to the number of transducers that are connected to the circuits.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Q. Vu whose telephone number is (571) 272-2088. The examiner can normally be reached on Monday-Thursdays, 8:00AM- 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/082,481

Art Unit: 2838

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bao Q. Vu Primary Examiner

Art Unit 2838

December 15, 2005